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SEQUENCE LISTING
      3 (1) GENERAL INFORMATION:
             (i) APPLICANT: Lyman, Stewart D.
      4
                            Beckmann, M. Patricia
      5
      7
            (ii) TITLE OF INVENTION: Ligands for flt3/flk-2 Receptors
      9
           (iii) NUMBER OF SEQUENCES: 8
            (iv) CORRESPONDENCE ADDRESS:
     11
     12
                  (A) ADDRESSEE: Stephen L. Malaska, Immunex Corporation
     13
                  (B) STREET: 51 University Street
     14
                  (C) CITY: Seattle
     15
                  (D) STATE: Washington
                  (E) COUNTRY: US
     16
     17
                  (F) ZIP: 98101
                                                                ENTERED
             (V) COMPUTER READABLE FORM:
     19
     20
                  (A) MEDIUM TYPE: Floppy disk
     21
                  (B) COMPUTER: Apple Macintosh
     22
                  (C) OPERATING SYSTEM: Macintosh 7.0.1
     23
                  (D) SOFTWARE: Microsoft Word, Version #5.1
            (vi) CURRENT APPLICATION DATA:
     25
c--> 26
                  (A) APPLICATION NUMBER: US/08/994,468
C--> 27
                  (B) FILING DATE: 19-Dec-1997
     48
                  (C) CLASSIFICATION:
     45
           (vii) PRIOR APPLICATION DATA:
     31
                  (A) APPLICATION NUMBER: 08/162,407
     32
                  (B) FILING DATE:
     36
                  (A) APPLICATION NUMBER: 08/111,758
     37
                  (B) FILING DATE: August 25, 1993
     41
                  (A) APPLICATION NUMBER: 08/106,463
     42
                  (B) FILING DATE: August 12, 1993
     46
                  (A) APPLICATION NUMBER: 08/068,394
     47
                  (B) FILING DATE: May 24, 1993
     50
          (viii) ATTORNEY/AGENT INFORMATION:
                  (A) NAME: Malaska, Stephen L.
     52
                  (B) REGISTRATION NUMBER: 32,655
     53
                  (C) REFERENCE/DOCKET NUMBER: 2813-C
     55
            (ix) TELECOMMUNICATION INFORMATION:
     56
                  (A) TELEPHONE: (206) 587-0430
     57
                  (B) TELEFAX: (206) 233-0644
     58
                  (C) TELEX: 756822
     60 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
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                  (A) LENGTH: 879 base pairs
                  (B) TYPE: nucleic acid
     64
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65 (C) STRANDEDNESS: single														
66 (D) TOPOLOGY: linear														
68 (ii) MOLECULE TYPE: cDNA to mRNA														
70 (iii) HYPOTHETICAL: NO														
2 (iv) ANTI-SENSE: NO														
4 (ix) FEATURE:														
75 (A) NAME/KEY: misc_feature														
76 (B) LOCATION: 125														
78 (ix) FEATURE:														
(A) NAME/KEY: misc_feature														
BO (B) LOCATION: 855879														
82 (ix) FEATURE:														
83 (A) NAME/KEY: CDS														
84 (B) LOCATION: 57752														
87 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: 89 GTCGACTGGA ACGAGACGAC CTGCTCTGTC ACAGGCATGA GGGGTCCCCG GCAGAG	56													
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92 Met Thr Val Leu Ala Pro Ala Trp Ser Pro Asn Ser Ser Leu Leu Leu	104													
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97 20 25 30														
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99 Phe Ser His Ser Pro Ile Ser Ser Asn Phe Lys Val Lys Phe Arg Glu														
100 35 40 45														
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106 CTT CAG GAC GAG AAG CAC TGC AAG GCC TTG TGG AGC CTC TTC CTA GCC 107 Leu Gln Asp Glu Lys His Cys Lys Ala Leu Trp Ser Leu Phe Leu Ala 108 65 70 75 80 110 CAG CGC TGG ATA GAG CAA CTG AAG ACT GTG GCA GGG TCT AAG ATG CAA 111 Gln Arg Trp Ile Glu Gln Leu Lys Thr Val Ala Gly Ser Lys Met Gln 112 85 90 95 95 114 ACG CTT CTG GAG GAC GTC AAC ACC GAG ATA CAT TTT GTC ACC TCA TGT														
106 CTT CAG GAC GAG AAG CAC TGC AAG GCC TTG TGG AGC CTC TTC CTA GCC 107 Leu Gln Asp Glu Lys His Cys Lys Ala Leu Trp Ser Leu Phe Leu Ala 108 65 70 75 80 110 CAG CGC TGG ATA GAG CAA CTG AAG ACT GTG GCA GGG TCT AAG ATG CAA 111 Gln Arg Trp Ile Glu Gln Leu Lys Thr Val Ala Gly Ser Lys Met Gln 112 85 90 95 114 ACG CTT CTG GAG GAC GTC AAC ACC GAG ATA CAT TTT GTC ACC TCA TGT 115 Thr Leu Leu Glu Asp Val Asn Thr Glu Ile His Phe Val Thr Ser Cys	344													
106 CTT CAG GAC GAG AAG CAC TGC AAG GCC TTG TGG AGC CTC TTC CTA GCC 107 Leu Gln Asp Glu Lys His Cys Lys Ala Leu Trp Ser Leu Phe Leu Ala 108 65 70 75 80 110 CAG CGC TGG ATA GAG CAA CTG AAG ACT GTG GCA GGG TCT AAG ATG CAA 111 Gln Arg Trp Ile Glu Gln Leu Lys Thr Val Ala Gly Ser Lys Met Gln 112 85 90 95 114 ACG CTT CTG GAG GAC GTC AAC ACC GAG ATA CAT TTT GTC ACC TCA TGT 115 Thr Leu Leu Glu Asp Val Asn Thr Glu Ile His Phe Val Thr Ser Cys 116 100 100 100 100 100 100 100 100 100	344													
106 CTT CAG GAC GAG AAG CAC TGC AAG GCC TTG TGG AGC CTC TTC CTA GCC 107 Leu Gln Asp Glu Lys His Cys Lys Ala Leu Trp Ser Leu Phe Leu Ala 108 65 70 70 75 80 80 110 CAG CGC TGG ATA GAG CAA CTG AAG ACT GTG GCA GGG TTC AAG ATG CAA 111 Gln Arg Trp Ile Glu Gln Leu Lys Thr Val Ala Gly Ser Lys Met Gln 112 85 85 85 90 95 95 95 114 ACG CTT CTG GAG GAC GTC AAC ACC	344													
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106 CTT CAG GAC GAG AAG CAC TGC AAG GCC TTG TGG AGC CTC TTC CTA GCC 107 Leu Gln Asp Glu Lys His Cys Lys Ala Leu Trp Ser Leu Phe Leu Ala 108 65 70 75 80 110 CAG CGC TGG ATA GAG CAA CTG AAG ACT GTG GCA GGG TCT AAG ATG CAA 111 Gln Arg Trp Ile Glu Gln Leu Lys Thr Val Ala Gly Ser Lys Met Gln 112 112 85 90 95 114 ACG CTT CTG GAG GAC GTC AAC ACC GAG ATA CAT TTT GTC ACC TCA TGT 115 115 Thr Leu Leu Glu Asp Val Asn Thr Glu Ile His Phe Val Thr Ser Cys 116 100 105 117 Thr Ser Cys 118 ACC TTC CAG CCC CTA CCA GAA TGT CTG CAG TTC GTC CAG ACC ACC ACC ACC TTCA TGT 119 Thr Phe Gln Pro Leu Pro Glu Cys Leu Arg Phe Val Gln Thr Asn Ile 120 115 120 122 TCC CAC CTC CTG AAG GAC ACC TGC ACA CAC CAG CTG CTT GCT CTG AAG CCC 123 Ser His Leu Leu Lys Asp Thr Cys Thr Gln Leu Leu Ala Leu Lys Pro	344 392 440													
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106 CTT CAG GAC GAG AAG CAC TGC AAG GCC TTG TGG AGC CTC TTC CTA GCC 107 Leu Gln Asp Glu Lys His Cys Lys Ala Leu Trp Ser Leu Phe Leu Ala 108 65 70 75 80 110 CAG CGC TGG ATA GAG CAA CTG AAG ACT GTG GG GCA GGG TCT AAG ATG CAA 111 Gln Arg Trp Ile Glu Gln Leu Lys Thr Val Ala Gly Ser Lys Met Gln 112 90 95 114 ACG CTT CTG GAG GAC GTC AAC ACC GAG ATA CAT TTT GTC ACC TCA TGT 115 Thr Leu Leu Glu Asp Val Asn Thr Glu Ile His Phe Val Thr Ser Cys 110 <td>344 392 440 488</td>	344 392 440 488													

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136				180					185					190			
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139	Leu	Leu		Leu	Leu	Pro	Leu	Thr	Leu	Val	Leu	Leu		Ala	Ala	Trp	
140			195					200					205				
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143	Gly		Arg	Trp	Gln	Arg		Arg	Arg	Arg	Gly		Leu	His	Pro	Gly	
144		210					215					220					
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		Pro	Leu	Pro	Ser		Pro										
	225					230											
												TTG	GGAG	CCC 1	AGAG	CAGGAT	
								CTCG!		CAGT	CGAC						879
154								NO: 2									
156		(i)						ISTI									
157								nino	acio	ls							
158			•	•		amir											
159				•		OGY:											
161						PE:											
164		•						ON: S									
166	Met	Thr	Val	Leu		Pro	Ala	\mathtt{Trp}	Ser		Asn	Ser	Ser	Leu		Leu	
167	1				5					10			•		15		
	Leu	Leu	Leu		Leu	Ser	Pro	Cys		Arg	Gly	Thr	Pro		Cys	Tyr	
170				20		_			25		_		_	30	_		
	Phe	Ser		Ser	Pro	Ile	Ser	Ser	Asn	Phe	Lys	Val	_	Phe	Arg	Glu	
173			35					40		_			45			_	
	Leu		Asp	His	Leu	Leu	_	Asp	Tyr	Pro	Val		Val	Ala	Val	Asn	
176		50					55			_	_	60	_		_		
		Gln	Asp	Glu	Lys		Cys	Lys	Ala	Leu		Ser	Leu	Phe	Leu		
179		_			_,	70					75	-1	_			80	
	GIn	Arg	Trp	Ile		GIn	Leu	Lys	Thr		Ala	GLY	Ser	гуѕ		GIn	
182		_	_		85		_			90		-,		_,	95	_	
	Thr	Leu	Leu		Asp	Val	Asn	Thr		He	His	Phe	Val		Ser	Cys	
185	m)	-1	a 1	100	.	D	01	G	105	3	Db -	77- 7	01	110	3	T1 -	
	Thr	Pne		Pro	Leu	Pro	GIU	Cys	Leu	Arg	Pne	vaı		Thr	ASN	ile	
188			115	.	-		m1	120	m)	01	.	.	125	T	T	D	
	ser		ьeu	Leu	ьys	Asp		Cys	Thr	GIN	ьeu		АТа	Leu	ьys	Pro	
191	G	130	01	T		G	135		D1	G	3	140	T	~1	37 - 3	G1 =	
		TTe	GIA	ьys	ÀТа		GIN	Asn	Pne	ser		Cys	ьeu	GIU	vaı		
	145	a 1	D		0	150	ml	.	.	D	155	3	.	D	T1_	160	
	Cys	GIn	Pro	Asp		ser	Thr	Leu	Leu		Pro	Arg	ser	Pro		Ala	
197	-	a 1		m1	165	.		63	D	170	D	•	a 1	.	175	T	
	ьeu	GIU	АТА		GIU	ьeu	PIO	Glu		arg	PLO	arg	GID		ьeu	ьeu	
200	.	.	Ŧ.	180	. .	D-	. .	m1:	185	77. 7	T	T	37 -	190	37 -	m	
	ьeu	ьeu		ьeu	Leu	Pro	ьeu	Thr	ьeu	val	ьeu	ьeu		Ala	Ala	Trp	
203	01	T	195	m	a 1.	3		200	3	3	01	61. :	205	772 -	D =	61	
	стА		arg	Trp	GIN	arg		Arg	arg	Arg	стА		ьeu	H1S	Pro	стλ	
206		210					215					220					

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208 Val Pro Leu Pro Ser His Pro
209 225
                        230
211 (2) INFORMATION FOR SEQ ID NO: 3:
        (i) SEQUENCE CHARACTERISTICS:
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             (A) LENGTH: 24 base pairs
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              (B) TYPE: nucleic acid
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              (D) TOPOLOGY: linear
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219
       (iii) HYPOTHETICAL: NO
       (iv) ANTI-SENSE: NO
221
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228 (2) INFORMATION FOR SEQ ID NO: 4:
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234
236
       (iii) HYPOTHETICAL: NO
        (iv) ANTI-SENSE: NO
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                                                                        20
242 AGCAGGTCGT CTCGTTCCAG
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         (i) SEQUENCE CHARACTERISTICS:
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             (A) LENGTH: 988 base pairs
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              (B) TYPE: nucleic acid
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              (D) TOPOLOGY: linear
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       (ii) MOLECULE TYPE: cDNA to mRNA
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       (iii) HYPOTHETICAL: NO
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       (iv) ANTI-SENSE: NO
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       (ix) FEATURE:
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              (B) LOCATION: 30..734
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
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264 CGGCCGGAAT TCCGGGGCCC CCGGCCGAA ATG ACA GTG CTG GCG CCA GCC TGG
                                                                        53
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265
266
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268 AGC CCA ACA ACC TAT CTC CTC CTG CTG CTG CTG AGC TCG GGA CTC
                                                                       101
269 Ser Pro Thr Thr Tyr Leu Leu Leu Leu Leu Leu Ser Ser Gly Leu
                             15
272 AGT GGG ACC CAG GAC TGC TCC TTC CAA CAC AGC CCC ATC TCC TCC GAC
                                                                       149
273 Ser Gly Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp
                                             35
276 TTC GCT GTC AAA ATC CGT GAG CTG TCT GAC TAC CTG CTT CAA GAT TAC
                                                                       197
277 Phe Ala Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr
                                         50
280 CCA GTC ACC GTG GCC TCC AAC CTG CAG GAC GAG GAG CTC TGC GGG GGC
281 Pro Val Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly
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262				60					65					70			
282	OMC.	mcc	ccc		CMC	CITIC	CCN	CAC		mcc	አመሮ	CAC	CCC		AAG	х ст	293
																	293
	ьeu	тр	75	Leu	val	Leu	Ala	80	AIG	пр	Met	Gru	85	цец	Lys	1111	
286	CTC	CCT		TICC.	አአሮ	አመሮ	רא א		ጥጥር	CTC	CAC	ccc		ልልሮ	ACG	GAG	341
															Thr		341
290	vai	90	GIY	361	гуз	Mer	95	GIY	пеп	пец	GIU	100	Val	ASII	1111	GIU	
	א תווא		mmm.	CTTC	7.00	7 7 7		CCC	աատ	CAG	ccc		CCC	AGC	TGT	СФФ	389
															Cys		303
	105	птъ	FIIC	val	T 11T	110	Cys	пта	riic	GIII	115	110	110	501	Cyb	120	
	_	ጥጥረ	GTC	CAG	ACC		ΔͲϹ	ጥርር	CGC	СТС		CAG	GAG	ACC	TCC		437
															Ser		
298	nr 9	THE	Val	0111	125	non	110	001	**** 9	130		0111	014		135		
	CAG	СПС	стс	GCG		λAC	CCC	тсс	ል ጥር		CGC	CAG	AAC	ጥጥር	TCC	CGG	485
															Ser		
302	GIII	шец	* 44	140	пси	шуз	110		145		*** 9	0111		150	001	9	
	TGC	СТС	GAG		CAG	ጥርጥ	CAG	CCC		TCC	TCA	ACC	CTG		CCC	CCA	533
															Pro		
306	O _I D	шеч	155		01	0,0	·	160	p	501			165				
	TGG	AGT		CGG	CCC	CTG	GAG		ACA	GCC	CCG	ACA	GCC	CCG	CAG	CCC	581
															Gln		
310		170		,			175					180					
	ССТ		CTC	CTC	СТА	CTG	CTG	CTG	CCC	GTG	GGC	CTC	CTG	CTG	CTG	GCC	629
															Leu		
314						190					195					200	
		GCC	TGG	TGC	CTG	CAC	TGG	CAG	AGG	ACG	CGG	CGG	AGG	ACA	CCC	CGC	677
															Pro		
318			-	-	205		-		-	210	-	_	_		215	_	
320	CCT	GGG	GAG	CAG	GTG	CCC	CCC	GTC	CCC	AGT	CCC	CAG	GAC	CTG	CTG	CTT	725
321	Pro	Gly	Glu	Gln	Val	Pro	Pro	Val	Pro	Ser	Pro	Gln	Asp	Leu	Leu	Leu	
322				220					225					230			
324	GTG	GAG	CAC	TGA	CCTG	GCC A	AAGG	CTC	AT CO	CTGC	GGAG	CT	raaa(CAAC			774
325	Val	Glu	His										•				
326			235														
328	GCA	GTGAC	GAC A	AGAC	ATCTA	AT C	ATCC	CATT	TAC	CAGG	GGAG	GAT	ACTG	AGG (CACA	CAGAGG	834
330	GGA	STCA	CCA (GCCA	GAGG	AT G	PATA	CCTC	GAG	CACAC	GAGG	AAG!	r T GG(CTA (GAGG	CCGGTC	894
332	CCT	CCT	rgg (GCCC	CTCT	CA T	rccc?	rccc	CAG	ATG	GAGG	CAA	CGCC	AGA A	ATCC	AGCACC	954
334	GGC	CCCA	TTT I	ACCC	AACT	CT GA	AACA	AGC	c cc	CG							988
336	(2)							10: 6									
338		(i)						STIC									
339			(]	A) LI	ENGT	H: 2	35 аг	nino	acio	ds							
340			(E	3) T	PE:	ami	no ac	cid									
341			(I) T	OPOL	OGY:	line	ear									
343		(ii)	MO1	LECU	LE T	YPE:	prot	ein									
345								ON: S									
	Met	Thr	Val	Leu	Ala	Pro	Ala	Trp	Ser		Thr	Thr	Tyr	Leu	Leu	Leu	
348	1				5					10					15		
	Leu	Leu	Leu		Ser	Ser	Gly	Leu		Gly	Thr	Gln	Asp		Ser	Phe	
351				20					25					30			

VERIFICATION SUMMARY

DATE: 04/01/2002

PATENT APPLICATION: US/08/994,468

TIME: 15:09:37

Input Set : N:\Crf3\RULE60\08994468.raw
Output Set: N:\CRF3\04012002\H994468.raw

L:26 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:27 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]